

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P193232

Luminaire Tested: **GLEON-AF-04-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T3R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23744.2 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

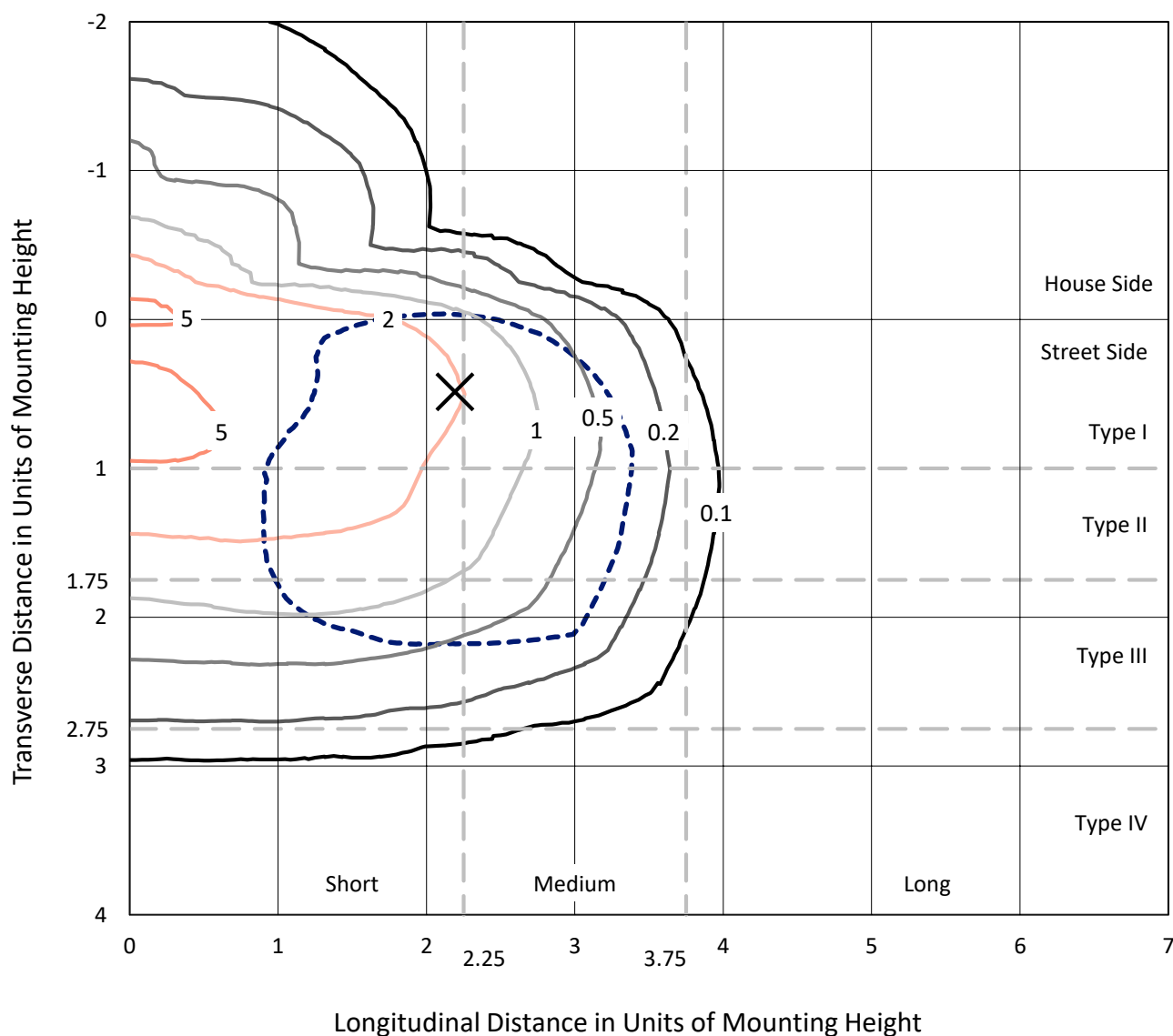


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

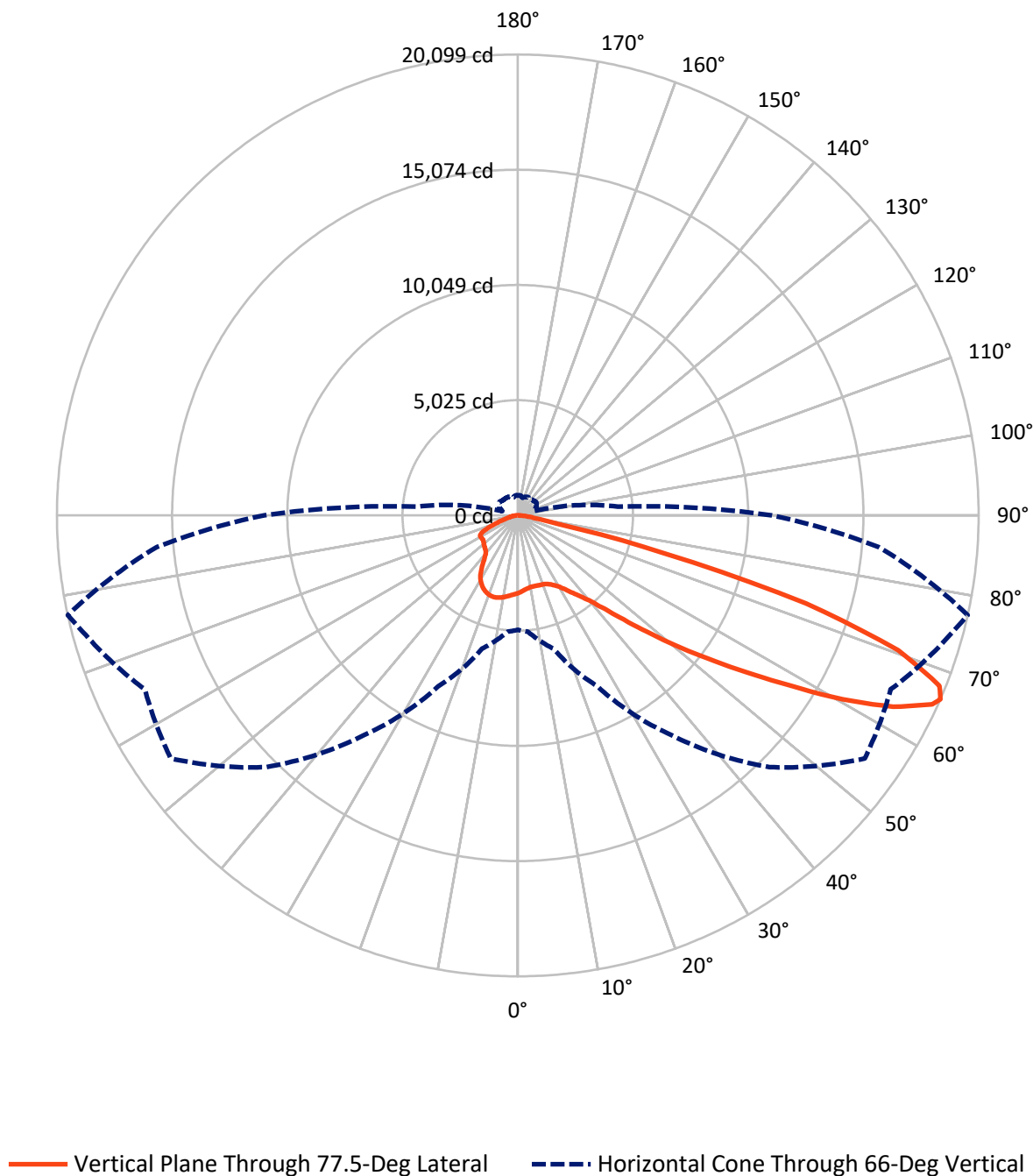


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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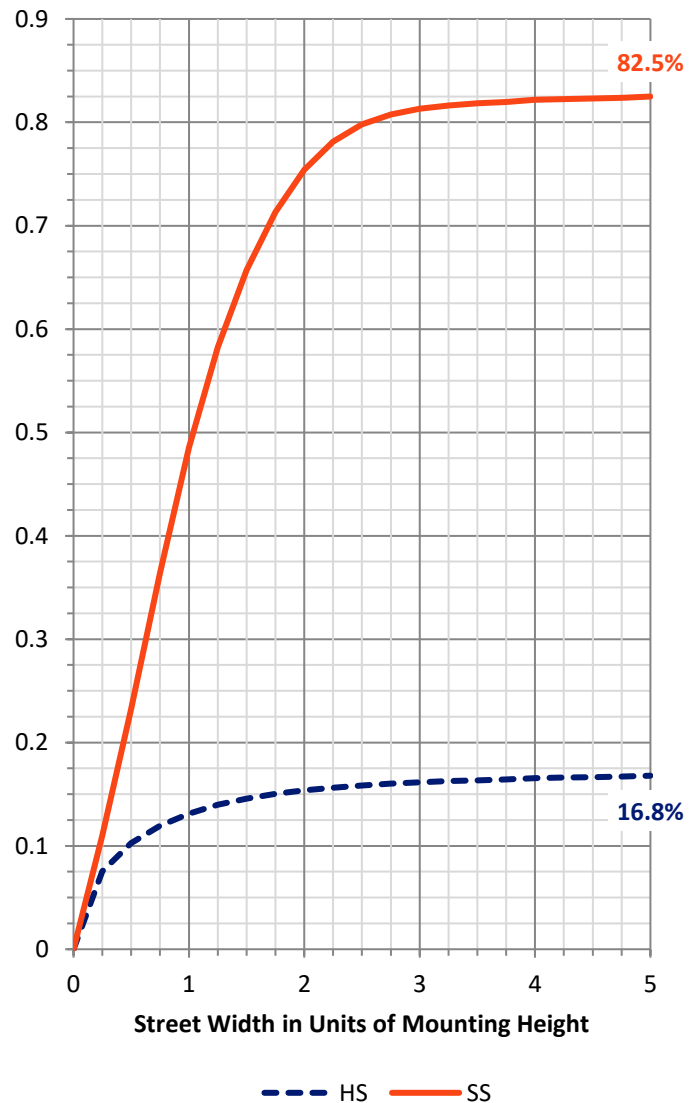
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4056.6	0.0	4056.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	19687.7	0.0	19687.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	23744.2	0.0	23744.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	1.3
10°-20°	852.8	3.6
20°-30°	1455.5	6.1
30°-40°	2330.0	9.8
40°-50°	3599.7	15.2
50°-60°	5105.5	21.5
60°-70°	6829.8	28.8
70°-80°	2966.1	12.5
80°-90°	302.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	23744.2	100.0
0°-180°	23744.2	100.0

Coefficient of Utilization



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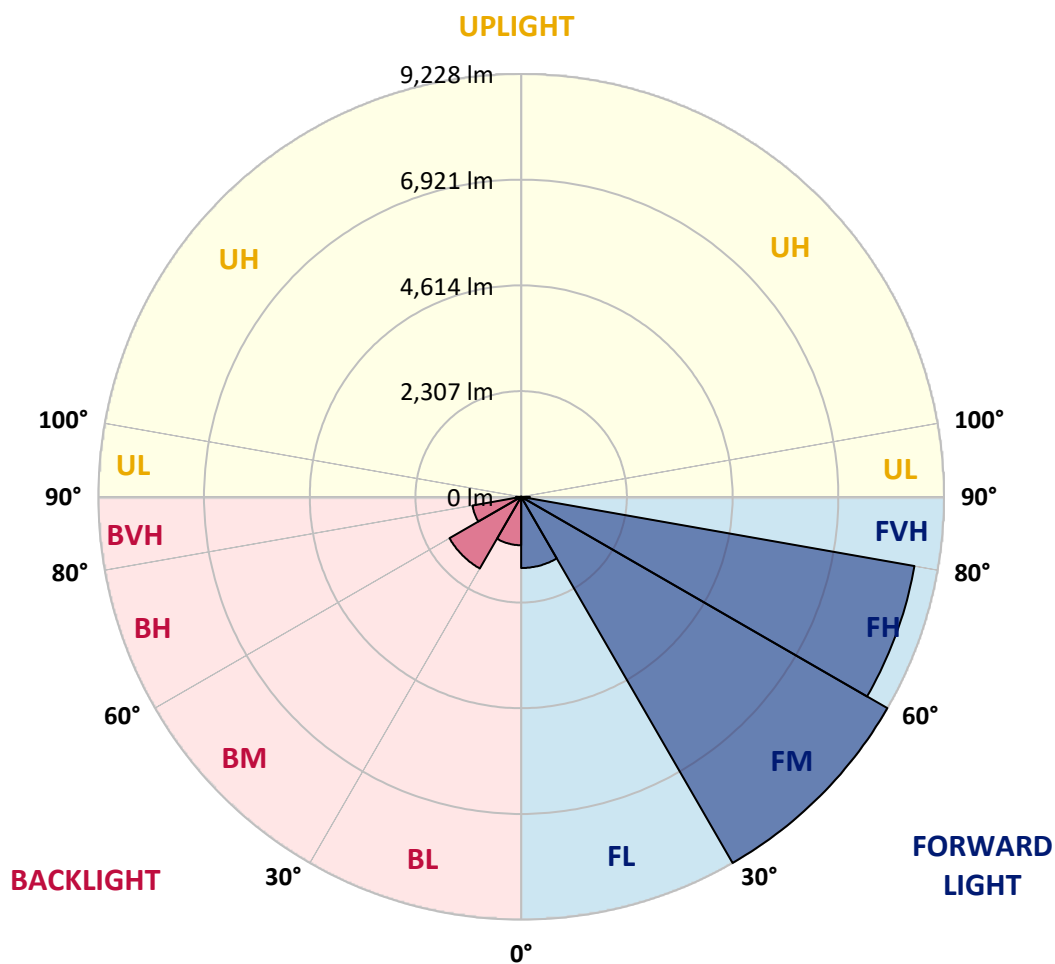
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1554.2	6.5			
FM	(30°-60°)	9228.2	38.9			
FH	(60°-80°)	8715.6	36.7			G4/12000
FVH	(80°-90°)	189.7	0.8			G2/225
BL	(0°-30°)	1056.5	4.4	B3/2500		
BM	(30°-60°)	1807.0	7.6	B2/2500		
BH	(60°-80°)	1080.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	112.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6
2.5°	2993.2	3013.5	3030.3	3045.9	3077.4	3128.9	3188.4	3236.7	3306.3	3319.8	3356.8
5°	2718.4	2718.4	2731.8	2755.4	2798.0	2875.4	2956.2	3063.9	3215.4	3251.2	3350.0
7.5°	2584.8	2585.9	2593.9	2614.0	2651.0	2721.7	2810.3	2937.1	3142.4	3202.0	3370.2
10°	2634.2	2623.0	2606.2	2596.1	2601.7	2643.2	2727.3	2868.7	3097.6	3173.9	3415.1
12.5°	2910.2	2889.0	2830.6	2753.2	2679.1	2648.8	2698.1	2836.2	3078.5	3167.1	3474.6
15°	3361.3	3352.3	3243.5	3083.0	2903.4	2753.2	2719.5	2823.8	3080.8	3175.0	3545.3
17.5°	3926.7	3914.3	3770.7	3537.4	3244.6	2951.7	2794.7	2833.9	3088.6	3188.4	3613.6
20°	4497.7	4459.5	4304.7	4026.5	3650.7	3222.2	2919.2	2859.8	3098.7	3203.1	3685.5
22.5°	4924.0	4892.6	4753.6	4483.1	4050.0	3535.1	3086.3	2904.6	3131.3	3245.6	3774.1
25°	5298.7	5301.0	5163.0	4901.6	4454.0	3867.2	3301.9	3024.7	3214.3	3333.2	3895.2
27.5°	5762.2	5735.1	5606.2	5347.0	4853.4	4202.6	3562.1	3189.6	3337.7	3457.7	4054.6
30°	6316.3	6297.2	6148.0	5854.1	5296.6	4562.7	3859.4	3381.5	3497.0	3621.5	4263.2
32.5°	6968.1	6959.2	6804.3	6426.3	5808.1	4986.9	4208.2	3634.9	3734.8	3863.9	4562.7
35°	7733.3	7734.5	7551.6	7097.2	6367.9	5480.6	4604.3	3961.4	4024.2	4159.0	4919.5
37.5°	8204.5	8261.7	8193.3	7729.9	7001.8	6032.5	5118.1	4394.5	4354.1	4489.9	5302.2
40°	8305.5	8375.0	8591.5	8355.9	7710.9	6640.6	5573.7	4810.6	4760.2	4926.3	5794.7
42.5°	8164.1	8260.5	8718.4	8884.4	8463.7	7390.0	6186.2	5428.9	5364.9	5588.2	6407.2
45°	8079.9	8151.8	8681.3	9159.2	9116.6	8237.0	6966.0	6205.3	6181.7	6474.4	7114.0
47.5°	7934.1	7999.2	8508.6	9223.2	9500.3	9013.4	7902.7	7154.4	7200.4	7584.1	7911.7
50°	8012.6	8039.6	8315.5	9060.6	9611.3	9582.1	8949.4	8253.9	8410.9	8890.0	8814.8
52.5°	8001.4	8071.0	8293.1	8793.5	9626.0	9933.3	9980.5	9480.1	9811.1	10360.8	9816.6
55°	6468.9	6596.7	8029.5	8726.2	9677.5	10277.8	10898.2	10772.5	11389.6	12030.2	10947.6
57.5°	6177.2	6258.0	7052.2	8867.5	9951.4	10935.2	11919.1	12195.1	13227.3	13971.1	12325.2
60°	6119.9	6219.8	7042.2	9040.3	10506.6	12006.6	13432.6	13917.2	15463.3	16277.7	13922.8
62.5°	5941.6	6049.3	6975.9	9017.8	11295.3	13488.7	15370.0	15748.2	17583.6	18375.7	15259.0
65°	5376.2	5477.1	6436.4	8655.5	11827.1	15070.5	17663.3	17426.6	19257.5	19853.2	15925.4
66°	4989.1	5087.8	6011.1	8229.2	11703.8	15519.3	18475.5	17946.0	19632.2	20098.9	15795.3
67.5°	4281.3	4358.6	5185.5	7274.5	11047.4	15645.0	19158.7	18336.4	19671.5	19836.3	15051.4
70°	2704.9	2727.3	3370.2	5021.7	8362.7	13568.4	18118.8	17367.1	18049.2	17602.6	12618.1
72.5°	1173.6	1165.7	1617.8	2554.6	4734.4	9104.2	14656.6	14330.1	14158.5	13139.7	8832.7
75°	653.0	661.9	840.3	1185.9	1924.0	4471.9	9587.8	9174.9	7746.7	6610.3	4005.2
77.5°	523.9	536.3	696.7	841.4	863.9	1559.4	4486.5	3650.7	2197.9	1763.7	1113.0
80°	414.0	436.4	608.0	655.2	582.3	642.9	1449.6	1158.9	869.4	797.7	576.7
82.5°	327.6	343.3	521.7	495.9	407.2	433.1	694.5	676.6	565.4	514.9	333.2
85°	235.6	264.7	428.6	373.5	267.0	291.7	461.1	442.1	324.3	264.7	147.0
87.5°	96.4	125.6	302.8	247.9	149.2	135.7	230.0	216.6	153.7	112.2	72.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6	3383.6
2.5°	3380.3	3407.2	3442.0	3463.3	3474.6	3482.4	3494.7	3493.6	3497.0	3498.1	3502.7
5°	3402.8	3447.5	3498.1	3511.6	3511.6	3499.2	3486.9	3466.7	3458.8	3456.6	3458.8
7.5°	3461.2	3510.4	3554.2	3538.5	3504.8	3455.5	3391.5	3335.4	3305.1	3295.0	3292.7
10°	3535.1	3594.6	3612.5	3553.1	3454.3	3335.4	3208.6	3116.6	3063.9	3049.3	3044.8
12.5°	3624.9	3681.0	3656.3	3530.6	3347.8	3156.0	2980.9	2833.9	2724.0	2689.2	2687.0
15°	3723.5	3767.4	3681.0	3461.2	3188.4	2905.8	2593.9	2340.4	2203.4	2159.6	2156.3
17.5°	3815.6	3838.1	3666.4	3339.9	2954.0	2496.2	2082.3	1887.0	1839.9	1851.2	1853.4
20°	3894.1	3894.1	3617.0	3166.0	2584.8	1956.7	1695.1	1691.9	1725.5	1759.2	1765.8
22.5°	3980.6	3929.0	3530.6	2920.3	2062.0	1600.9	1562.9	1594.2	1632.4	1669.4	1675.1
25°	4087.1	3957.0	3410.6	2547.8	1621.2	1454.0	1468.6	1494.3	1513.5	1537.1	1540.3
27.5°	4206.1	3992.9	3252.4	2035.2	1406.8	1362.0	1373.2	1382.2	1380.0	1388.9	1391.2
30°	4348.5	4034.4	3035.9	1590.9	1318.2	1283.5	1263.2	1255.4	1255.4	1270.0	1275.6
32.5°	4539.1	4096.0	2725.2	1363.1	1275.6	1227.3	1162.3	1133.1	1144.4	1193.6	1204.9
35°	4749.1	4162.2	2304.4	1285.7	1266.7	1201.6	1100.6	1046.7	1047.9	1093.9	1108.4
37.5°	4977.9	4246.4	1843.3	1271.1	1286.8	1202.7	1068.0	994.0	963.6	963.6	969.3
40°	5270.6	4332.7	1492.2	1281.2	1329.4	1216.2	1051.2	952.5	867.2	869.4	874.0
42.5°	5652.2	4406.9	1303.7	1302.5	1381.0	1234.1	1050.1	897.6	823.5	874.0	920.0
45°	6076.2	4443.9	1220.7	1321.6	1422.5	1245.3	1032.2	888.5	829.1	979.4	1066.9
47.5°	6564.3	4422.6	1174.6	1328.4	1432.7	1245.3	1012.0	909.9	868.4	1134.2	1236.4
50°	7099.4	4360.9	1129.7	1314.8	1429.3	1243.1	1031.1	931.2	883.0	1161.2	1231.9
52.5°	7728.8	4309.1	1082.6	1285.7	1405.7	1230.7	1053.5	922.2	836.9	1055.7	1105.0
55°	8446.9	4323.8	1029.9	1244.3	1368.7	1207.2	1045.6	886.3	788.8	930.1	960.4
57.5°	9364.5	4497.7	967.1	1191.5	1318.2	1167.9	1017.5	869.4	774.1	843.7	861.6
60°	10388.8	4800.7	888.5	1138.7	1255.4	1105.0	996.2	877.4	780.8	836.9	845.8
62.5°	11140.5	4976.8	821.2	1061.4	1170.1	1035.6	969.3	887.4	798.8	860.5	858.2
65°	11344.7	4687.3	737.1	948.1	1054.6	962.6	935.7	898.6	806.7	879.5	869.4
66°	11058.5	4375.4	700.1	895.3	996.2	926.7	918.9	897.6	803.3	881.8	865.0
67.5°	10364.2	3735.9	636.1	818.0	903.1	872.9	891.9	887.4	794.4	879.5	856.0
70°	8452.4	2549.0	544.1	681.0	751.7	768.5	840.3	851.5	765.2	840.3	788.8
72.5°	5905.7	1552.7	481.3	528.4	608.0	655.2	769.6	802.2	725.9	733.6	684.4
75°	2854.2	824.6	436.4	409.5	472.3	547.5	684.4	734.9	664.2	613.7	595.7
77.5°	889.7	503.6	370.3	329.9	370.3	442.1	572.2	644.0	591.2	513.8	507.1
80°	477.9	370.3	284.9	264.7	292.9	346.7	449.9	537.4	508.3	461.1	411.7
82.5°	315.2	240.1	210.9	205.3	223.2	264.7	334.4	445.4	445.4	394.9	287.3
85°	162.7	147.0	144.8	144.8	155.9	176.1	227.7	343.3	365.7	208.6	172.7
87.5°	80.8	84.1	78.5	82.0	87.5	86.5	108.8	172.7	206.4	126.7	105.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)